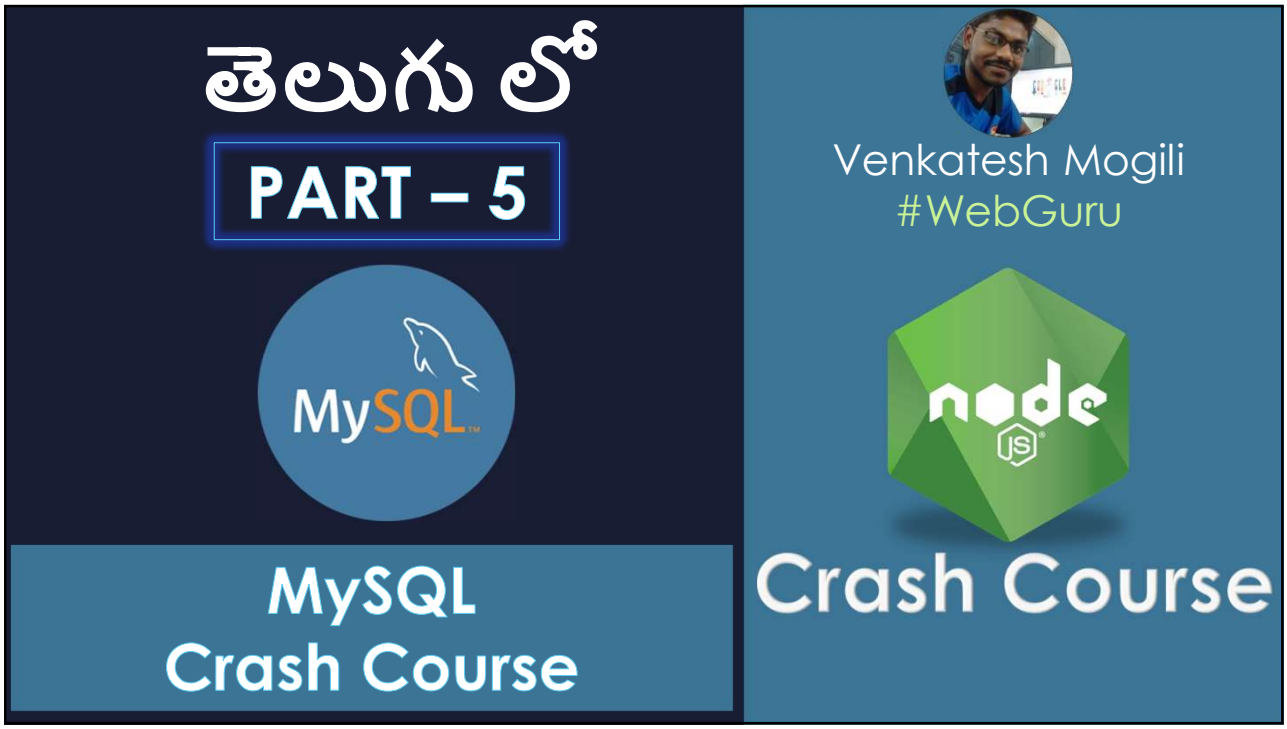

Contents

- **Introduction to MySQL**
- MySQL Installation
- MySQL Connection in NodeJS
- SQL Hands on

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Introduction to MySQL

- **RDBMS** stands for Relational Database Management System.
- **RDBMS is the basis for SQL**, and for all modern database systems such as MS SQL Server, IBM DB2, Oracle, MySQL, and Microsoft Access.
- The data in RDBMS is stored in database objects called tables. A table is a collection of related data entries and it consists of columns and rows.
- **SQL** stands for Structured Query Language
- **SQL** is a standard language for storing, manipulating and retrieving data in databases.

Databases

col1	col2	col3	col4	col5
row1				
row2				
row3				
row4				
row5				

Table

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MySQL Installation

There are several ways to install MySQL.

1. MySQL Installer
   https://dev.mysql.com/downloads/installer/

   (OR)

2. XAMPP has MySQL server.
   https://www.apachefriends.org/download.html

XAMPP

- ✓ Download any of the above software and install them and run. By default MySQL will run on port 3306.
- ✓ Any one MySQL can be run at a time, more than one servers can't be run. If you update port, then you can use more than one servers, but it's not recommended.

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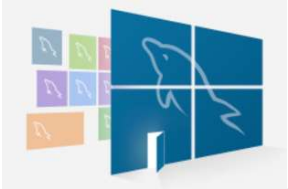
MySQL Connection in NodeJS

1. Install mysql using below command
   - **npm install mysql**
2. import mysql
3. Create Connection for mysql
4. Check Connection is established or not.
5. Once database is created, change the connection configuration.



XAMPP

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SQL Hands on

- Create and Drop Database.
- Create, Alter, Truncate and Drop Table.
- Constraints
  - Primary key
  - Unique
  - Foreign key
  - Default
  - Auto Increment

Databases

col1	col2	col3	col4	col5
row1				
row2				
row3				
row4				
row5				

Table-2

col1	col2	col3	col4	col5
row1				
row2				
row3				
row4				
row5				

Table-1

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SQL Hands on

CRUD Operations:

- Insert
- Select
- SQL Injection and Protection
- Update
- Delete

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SQL Hands on

SQL Injection and Protection:

- SQL Injection can happen while taking the inputs from users. Example: Username, Password etc.,

1. SQL Injection based on 1=1 Always true.
2. SQL Injection based on “”=“” Always true.
3. SQL Injection based on Batched SQL Statements.

Protection:

1. Use SQL Parameters for protection
2. ? (Question mark symbol and respective values)
3. mysql.escape for the parameters.

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SQL Hands on

CRUD Operations:

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PART – 6

Next part

- Routes
- Models
- Controllers

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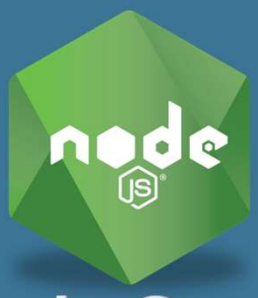

Crash Course

The expert in anything was once a beginner

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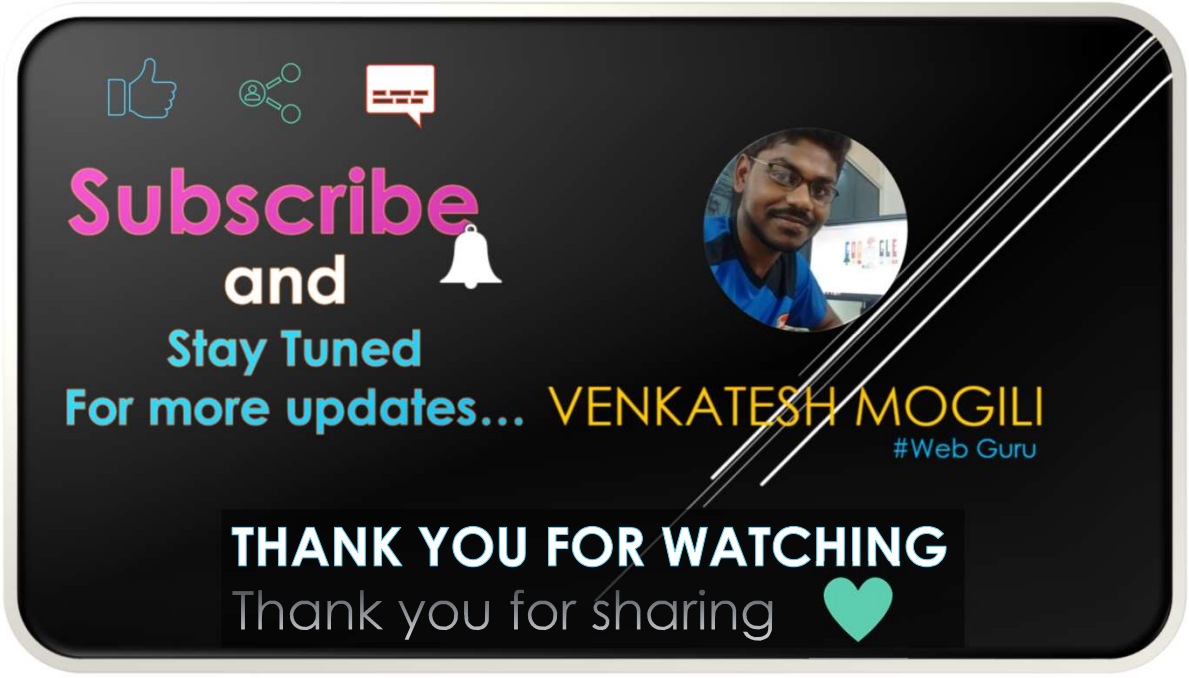
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